

TOP SECRET**PRIORITY**

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TOP SECRET

CITE NPIC 3988.

SUBJECT: CAMERA INFORMATION FOR MISSION 1017-1.

1. THIS PHOTOGRAPHY INVOLVES THE USE OF EIGHT CAMERAS: TWO MAIN CAMERAS, FOUR HORIZON CAMERAS, A STELLAR CAMERA, AND AN INDEX CAMERA.

2. CAMERA DATA

	FORWARD AFT	STAR HOR	PORT HOR	STELLAR	INDEX
FOCAL					
LENGTH (MM)	609.63 609.58	FWD 55.13 FWD 55.22	(1) 84.140 (1) 38.096		
		AFT 54.11 AFT 54.60	(2) 83.963 (2) 37.880		
FILTER					
(WRATTEN NO)	25 21	25 25	NONE	21	
APERTURE	F3.5 F3.5	F8.0 F6.8	F1.8	F4.5	
SLIT					
WIDTH (IN.)	.250 .175	1/100 1/100	2.0	1/500	
EXPOSURE (SEC.)					
FILM	4404 4404	4404 4404	4401	4400	

TOP SECRET

OUT55183

1965 MAR 5 02 49Z

25X1

25X1

25X1

25X1

25X1

GROUP 25X1
Excluded from automatic
downgrading and
declassification

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RESOLUTION

(L/MM)	171	182	FWD 79	FWD 112	(1) 70
			AFT 104	AFT 88	(2) 71.7

NOTE: NUMBERS (1) AND (2) UNDER STELLAR AND INDEX HEADING REFER
TO PART-1 AND PART-2 OF THE MISSION.

3. LENS DISTORTION (PIN CUSHION) MM

A. MAIN LENS	3	2	1	0	359	358	357
FWD UNIT	.007	.005	.001	.000	.001	.004	.007
AFT UNIT	.002	.001	.000	.000	.001	.003	.004

B. HORIZON CAMERAS (MM)		FWD		AFT
	PORT	STARBOARD	PORT	STARBOARD
(RADIAL) 10 DEGREES	.000	.002	.000	.003
20 DEGREES	.008	.005	.006	.010
(TANGENTIAL) MAX VECTOR	.009	.008	.003	.007

4. CAMERA ANGLES DEGREES MINUTES

A. ANGLE BETWEEN MAIN CAMERAS	29	52.59
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B. ANGLE BETWEEN STELLAR AND INDEX CAMERAS

PART (1)	90	02
PART (2)	89	57

C. DEPRESSION ANGLE BETWEEN HORIZON AND MAIN
CAMERAS

FWD STARBOARD	14	52
FWD PORT	14	47
AFT STARBOARD	15	04
AFT PORT	15	04

5. TIMING MARKS

FREQUENCY MARKS WILL APPEAR ON THE FILM AT A RATE OF 200

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CYCLES PER SECOND.

6. IMAGE MOTION COMPENSATION DATA (CYCLE RATE (CPS), GROUND ANGULAR VELOCITY (GAV) IN RAD/SEC, AND PASSES WHERE USED).

REF LEVEL			AMPL. LEVEL			PASSES
NO.	CPS.	GAV.	NO.	CPS.	GAV.	
4	.3547	.0321	6	.1059	.0096	2D1 THRU 8D1 33D1 THRU 81D2
5	.3428	.0310	6	.1059	.0096	9AE THRU 32D1 AND 1D1

7. PROGRAM TIME DATA

CAMERA ON TIME					PROGRAM ON TIME	PROGRAM
PASS	(ZEBRA TIME)				UP RAMP	DURATION
	DAY	HOUR	MIN	SEC	SEC	SEC
1D1	25	23	13	48	1352	24
2D1	26	00	36	26	963	75
2D2	26	00	38	19	1076	194
4D1	26	03	38	55	1088	137
4D2	26	03	44	12	1405	72
5D1	26	05	08	37	1030	212
5D2	26	05	14	00	1353	72
5D3	26	05	17	09	1542	55
6D1	26	06	38	17	1028	202
6D2	26	06	42	41	1292	75
6D3	26	06	50	18	1749	100
7D1	26	08	13	12	1294	73
7D2	26	08	15	21	1423	72

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7D3	26	08	18	44	1625	85
8D1	26	09	40	23	1147	86
9AE	26	10	53	09	80	47
9D1	26	11	14	24	1355	134
10D1	26	12	56	24	2145	176
16D1	26	21	48	14	1585	38
20D1	27	03	40	06	1164	78
20D2	27	03	44	42	1440	71
21D1	27	05	08	15	1037	111
21D2	27	05	11	21	1223	93
21D3	27	05	14	27	1409	72
22D1	27	06	39	06	1080	82
22D2	27	06	43	07	1321	72
22D3	27	06	47	23	1577	55
22D4	27	06	50	43	1776	85
23D1	27	08	13	09	1307	105
23D2	27	08	15	35	1453	71
23D3	27	08	19	05	1663	94
24D1	27	09	39	52	1102	154
24D2	27	09	43	43	1333	144
24D3	27	09	46	42	1511	54
25AE	27	10	53	37	128	48
25D1	27	11	14	48	1400	182

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25D2	27	11	19	53	1704	78
30D1	27	18	47	41	1547	56
32D1	27	21	48	27	1622	39
33D1	27	23	09	12	1113	60
35D1	28	02	08	24	1049	131
36D1	28	03	38	23	1033	110
36D2	28	03	42	38	1290	74
39D1	28	08	12	38	1260	188
39D2	28	08	17	28	1550	56
41D1	28	11	13	44	1333	56
41D2	28	11	15	21	1431	87
48D1	28	21	48	19	1610	39
50D1	01	00	38	59	1147	139
52D1	01	03	38	54	1125	102
52D2	01	03	42	21	1332	72
52D3	01	03	44	32	1463	158
54D1	01	06	39	13	1115	173
54D2	01	06	43	08	1351	97
54D3	01	06	46	59	1582	55
54D4	01	06	48	55	1698	86
55D1	01	08	08	49	1093	83
55D2	01	08	13	38	1382	82
55D3	01	08	15	35	1499	66
56D1	01	09	41	39	1252	191
63D1	01	20	19	03	1715	54
67D1	02	02	08	17	1166	82

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68D1	02	03	43	20	1468	199
70D1	02	06	39	43	1253	309
70D2	02	06	46	19	1649	55
71D1	02	08	08	00	1119	62
71D2	02	08	13	06	1425	276
72D1	02	09	40	57	1322	155
72D2	02	09	44	07	1512	149
78D1	02	18	43	45	1515	56
81DE	02	23	04	30	1051	102
81D2	02	23	07	45	1246	118

NOTE: DATA IS THE SAME FOR BOTH THE MASTER (FWD) AND SLAVE (AFT) UNITS.

8. TIME CORRELATION (MILLISECONDS)

PASS	CLOCK TIME	SYSTEM TIME	DIFFERENCE
09	248168.9099	39254.1873	
16	287468.1089	78553.3841	.002
25	334595.6699	39280.9424	.003
32	373880.8649	78566.1350	.002
41	420997.4749	39282.7421	.003
48	460272.5399	78557.8045	.003
56	501975.6449	33860.9067	.003
57	507373.4919	39258.7534	.000
63	4459.4849	73215.6560	.001
72	51455.6969	33811.8646	.003

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79 90806.5719 73162.7367 .003

NOTE: ALL "DIFERENCE" VALUES ARE PLUS.

9. REMARKS

A. S/I UNIT - PART 1 D21/21/21

PART 2 D60/68/01

B. LAST 5 FRAMES OF 81D2 WILL BE IN 1017-2.

T O P S E C R E T

/END OF MESSAGE/

(ABOVE MESSAGE ALSO PASSED



25X1